



```
user@user: ~/Desktop/Ivan_Kuchеров_RI-p51/Lab6_RI-p51
user@user:~/Desktop/Ivan_Kuchеров_RI-p51/Lab6_RI-p51$ gcc -c main.c
user@user:~/Desktop/Ivan_Kuchеров_RI-p51/Lab6_RI-p51$ gcc -c lib.c
user@user:~/Desktop/Ivan_Kuchеров_RI-p51/Lab6_RI-p51$ gcc -o main main.o lib.o -lm
user@user:~/Desktop/Ivan_Kuchеров_RI-p51/Lab6_RI-p51$ ./main
Enter input filename: input.txt

--- TABLE OF VALUES (first 10 rows) ---
 1 | x =      0.000000 | f(x) = 640000.000000
 2 | x =      0.500000 | f(x) = 706439.257812
 3 | x =      1.000000 | f(x) = 777922.250000
 4 | x =      1.500000 | f(x) = 854699.148438
 5 | x =      2.000000 | f(x) = 937028.000000
 6 | x =      2.500000 | f(x) = 1025175.664062
 7 | x =      3.000000 | f(x) = 1119418.750000
 8 | x =      3.500000 | f(x) = 1220044.554688
 9 | x =      4.000000 | f(x) = 1327352.000000
10 | x =      4.500000 | f(x) = 1441652.570312

Enter output text filename: output.txt
Text file saved.
Enter output binary filename: output.bin
Binary file saved.
```

```
user@user: ~/Desktop/Ivan_Kuchero...
Done.
user@user:~/Desktop/Ivan_Kuchero...$ cat output.txt
X1 = 0.000000
X2 = 10.000000
N = 21
delta = 0.500000

  i      x      f(x)
-----
  1      0.000000  640000.000000
  2      0.500000  706439.257812
  3      1.000000  777922.250000
  4      1.500000  854699.148438
  5      2.000000  937028.000000
  6      2.500000  1025175.664062
  7      3.000000  1119418.750000
  8      3.500000  1220044.554688
  9      4.000000  1327352.000000
 10      4.500000  1441652.570312
 11      5.000000  1563271.250000
 12      5.500000  1692547.460938
 13      6.000000  1829836.000000
 14      6.500000  1975507.976562
 15      7.000000  2129951.750000
```

```
user@user: ~/Desktop/Ivan_Kuchero...
  4      1.500000  854699.148438
  5      2.000000  937028.000000
  6      2.500000  1025175.664062
  7      3.000000  1119418.750000
  8      3.500000  1220044.554688
  9      4.000000  1327352.000000
 10      4.500000  1441652.570312
 11      5.000000  1563271.250000
 12      5.500000  1692547.460938
 13      6.000000  1829836.000000
 14      6.500000  1975507.976562
 15      7.000000  2129951.750000
 16      7.500000  2293573.867188
 17      8.000000  2466800.000000
 18      8.500000  2650075.882812
 19      9.000000  2843868.250000
 20      9.500000  3048665.773438
 21     10.000000  3264980.000000

RI-p51
Ivan Kuchero
user@user:~/Desktop/Ivan_Kuchero...$ ls -lh output.bin
-rwxrwx--- 1 user user 340 Nov 24 10:48 output.bin
user@user:~/Desktop/Ivan_Kuchero...$ ls -l
```

```
user@user: ~/Desktop/Ivan_Kucherov_RI-p51
user@user:~/Desktop/Ivan_Kucherov_RI-p51$ git add .
user@user:~/Desktop/Ivan_Kucherov_RI-p51$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   Lab6_RI-p51/lib.c
    new file:   Lab6_RI-p51/lib.h
    new file:   Lab6_RI-p51/lib.h.gch
    new file:   Lab6_RI-p51/lib.o
    new file:   Lab6_RI-p51/main
    modified:   Lab6_RI-p51/main.c
    deleted:    Lab6_RI-p51/main.exe
    new file:   Lab6_RI-p51/main.o
    renamed:    Lab6_RI-p51/out_table.bin -> Lab6_RI-p51/output.bin
    renamed:    Lab6_RI-p51/out_table.txt -> Lab6_RI-p51/output.txt

user@user:~/Desktop/Ivan_Kucherov_RI-p51$ git commit -m "Lab6 Done"
[main 267567d] Lab6 Done
10 files changed, 140 insertions(+), 139 deletions(-)
create mode 100755 Lab6_RI-p51/lib.c
create mode 100755 Lab6_RI-p51/lib.h
create mode 100644 Lab6_RI-p51/lib.h.gch
```

```
user@user: ~/Desktop/Ivan_Kucherov_RI-p51
10 files changed, 140 insertions(+), 139 deletions(-)
create mode 100755 Lab6_RI-p51/lib.c
create mode 100755 Lab6_RI-p51/lib.h
create mode 100644 Lab6_RI-p51/lib.h.gch
create mode 100644 Lab6_RI-p51/lib.o
create mode 100755 Lab6_RI-p51/main
delete mode 100755 Lab6_RI-p51/main.exe
create mode 100644 Lab6_RI-p51/main.o
rename Lab6_RI-p51/{out_table.bin => output.bin} (100%)
rename Lab6_RI-p51/{out_table.txt => output.txt} (96%)
mode change 100755 => 100644
user@user:~/Desktop/Ivan_Kucherov_RI-p51$ git push -u origin
Username for 'https://github.com': Krasapan
Password for 'https://Krasapan@github.com':
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Compressing objects: 100% (11/11), done.
Writing objects: 100% (11/11), 267.88 KiB | 3.57 MiB/s, done.
Total 11 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 2 local objects.
To https://github.com/Krasapan/Ivan-Kucherov-s-KPI-Informatics-Repository.git
  7316215..267567d  main -> main
branch 'main' set up to track 'origin/main'.
user@user:~/Desktop/Ivan_Kucherov_RI-p51$
```



```
user@user:~/Desktop/Ivan_Kuchеров_RI-p51/Lab6_RI-p51$ make
gcc -c main.c
gcc -c lib.c
gcc -o binary.exe main.o lib.o -lm
user@user:~/Desktop/Ivan_Kuchеров_RI-p51/Lab6_RI-p51$ ./main
Enter input filename: input.txt
```

